This Page Is Inserted by IFW Operations and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

As rescanning documents will not correct images, please do not report the images to the Image Problem Mailbox.

ISSUE SLIP STAPLE AREA (for additional cross references)

| POSITION | INITIALS | ID NO. | |
|---------------------------|----------|----------|----------|
| | | | DATE |
| FEE DETERMINATION | | | |
| O.I.P.E. CLASSIFIER | | | 77 |
| FORMALITY REVIEW | FP | <u>_</u> | 11-08-06 |
| RESPONSE FORMALITY REVIEW | 7. | JE 873 | 12-20-60 |
| | | | |

INDEX OF CLAIMS

| ~ | Rejected | N Nor | |
|---|----------------------------|--------|---------------|
| = | Allowed | IInte | 1-elected |
| _ | (Through numeral) Canceled | AApp | rrerence |
| ÷ | Restricted | O Obio | ieai ected |

| ا رز | | alm | + | _ | - | | Г | T | ate | | 2 | Т | Т | 7 | 1 | ŀ | Cla | _ | ۰, | | _ | <u>. </u> | Dat | e | | | | | | Ci | aim | T | | | | |)ate | | | | |
|---------|----------|----------|------------|------|------|----------|-----------|----------|-------------|------------|------|----------------|-------------------|----------|-----|-------|----------|----------|-----------------------------------------|------------------|--------------|----------------------------------------------|---------|------------|----------|--------------|----------|-------------|-----|------------|------------|------------|-------------|--------------|----------------------------------------------|--------------|----------|--------|------------------------|-------------------|-----------|
| W | Final | Original | 0 | 1 | 7 | <u> </u> | 7.4 | | | | | F | | | | | Final | Original | | | | | | | | | | | | Final | Original | , | | | | Ī | T | T | | .]. | Ť |
| 3 | <. 7 | Ų | | 4 | 4 | 1 | | L | 1 | · | Ĩ., | Ŀ | I | Ŀ |] . | | | 51 | | | | | - | | 7 | | - | \vdash | | ٣ | 10 | | + | + | + | 4 | 4 | 4 | \downarrow | \perp | \perp |
| | | 3 | Ĥ | 4. | H | ÷. | 3 P | +- | 1 | - | · | - | 1 | 1 | | | _ | 52 | | | | | | | _ | _ | | Н | | ┝ | 10 | - | ╁ | + | + | + | - | 4 | 4 | _ | 1 |
| · L | . 5 | 4 | Н | 1 | Щ | 74. | | 1 | - | ` | N | L | \perp | <u> </u> | 1 | L | _ | 53 | | | | | | | _1 | | | Н | | \vdash | 10 | +- | ╁ | + | + | + | + | + | + | 4 | 1 |
| 方を発生す | 3.9 | .5 | 1, | | 1 | | Gr Sj. | 1 | - | | 22 | 2 | ÷ | + | 4 | F | | 54 | 4 | _ | _ | 1 | \Box | | | | | | | \vdash | 104 | <u> </u> | + | + | + | + | ┿ | + | + | + | + |
| | ø | 18 | | - | , | | | | | | - T | : } - : | - | - | 1 | 4 | -+ | 55 | - | 4 | _ | 1 | - | 1 | \perp | | · | | | | 10 | | T | † | \top | + | + | + | + | + | + |
| 9 - | | V | | Ż | 1 | 7 | • | 1. | | + | | H | ┢ | + | 1 | - | - | 56 57 | \dashv | | | | 4 | 4 | | 4 | | | | | 106 | _ | Ι | | 1 | 7 | + | + | + | + | + |
| | | 8 | | | T. | | Ť | | T | 1 | - | | t | +- | 1 | Ė | | 58 | + | \dashv | \dashv | \dashv | 4 | + | - | 4 | | \dashv | | L., | 107 | ┺- | L | L | I | I | Ι | I | T | \top | + |
| 3 | | 9 | - | | - | _ | ę ē | .;. | 1 | | rî. | ئ . | 1 | | | F | - | 59 | + | 7 | 7 | + | + | \dashv | \dashv | \dashv | \dashv | | | <u> </u> | 108 | ŀ | L | 1 | 4 | 1 | | 0 | I | I | Ι |
| | - | 10 | 1 | 1 | 1 | _ | | | | | 2 | : | | | | Τ | 10 | 30 | \top | 7 | ヸ | - | + | \dashv | -+ | + | -+ | \dashv | | Ш | 109 110 | - | ├ | + ' | 4 | + | 1 | + | _ | \perp | Ι |
| - | ж, | 11 | J, | 1 | 1 | - | 10 | - | 13 | ٠. | -] | • 2 | L | | | | 1 | 31 | | 1 | 1 | 1 | 1 | + | | 1 | | \dashv | | _ | 111 | - | - | 1 | + | + | + | + | 1 | 4 | 1 |
| X L | 177 | 13 | ¥ | | | 4 | 100 | 1 | 1- | 4 | 1 | | <u>.</u> | | | L | | 2 | | \Box | | | 1 | 7 | 1 | 7 | 7 | \dashv | 7 | | 112 | - | - | ╁ | ╁ | + | + | + | +- | 1 | 1 |
| 3/5 | - | 14 | 114 | 1 | 1 | 1 | 3 | 1 | 1 | - 1 | • | 4 '- | | | - 1 | L | | 3 | | \Box | I | \perp | | | | | 7 | \neg | | | 113 | _ | ┝ | + | ╁ | + | + | +- | + | ╁ | +- |
| 1 | | 15 | | 1 | C | : 1 | ri. | 34 | H | | | 3.4 | ÷ | 30. | | | | 4 | <u>. </u> | - | 4 | - [| \perp | \perp | | I | | | | | 114 | ٠, | _ | 1 | + | + | 1 | +- | + | + | 1 |
| Ė | | 461 | 127 | 1 | 12.1 | | 10 | 100 | | | - | | 2 1 | 1,8 | - 1 | - | 6 | - | | 4 | | 1 | 1 | 4 | | \perp | \perp | | | | 115 | | • 1 | 10 | 1 | 1 | 1 | + | + | + | + |
| | | 400 | 1 | | 8 | 1 | 3 | -11 | Ċ | 1 | Ž | 7 | . · | 12 | | - | 6 | -1- | + | + | + | 1 | -1 | 1 | 4 | 4 | 4 | 4 | | _ | 116 | | | | | 9 | 1., | 1 | | | † |
| | 4 | 7 7 | 37 | | 3 | 3 | | œ. | 4 | 1 | - | ē | | 175c | | - | 6 | | 7 . | - | Ŀ | | + | + | + | 4 | 4 | 1 | | | 117 | | | | | L | | 2 | L | 1 | |
| 1 | 3 | 19 | 4 | . \ | | 1 | ¥. | £37 | 7 | i i | 7 | 7 | 50 | 1.7 | | - | 6 | | 2 | | | # C | 100 | • 0 • 4 | | + | + | 4 | | - | 118 | | 175 | 4 | 100 | 34 | 197 | 12. 42 | u, | | 72 |
| Į. | 1 2 | 20 | 3.5 | 176 | | 111 | 3 | | u. | 1 | ١. | 3 | | | | | 70 | - | - | - 1:- | | 1 | 4 | +- | | + | , | | | -+ | 19 | 1 | . , E ,& | - | | ŀ. | V. | 1 | 1 | 2.5 | |
| | - | 21 | | 3.4 | 4 | ħ | 14 | r.i. | | 1 | | · i | , } | ¥, | | 16 | 7 | 1.0 | | | 5 5 | - | , - | 1 X | _ | + | + | 4 | | - | | | | | L | 100 | | N. | L | | 15 |
| | | 2 | | 8 | Ŷ. | | - | 0.3 | * ** | 1 | 4 | • | 9 2 | 3 | | ů. | 72 | | | . 4 | | | 1 | - | | f | + | - | | | 21 22 | 33 | - 6 | - | | | di tu | 209 | Ļ | 4 | - |
| 3. | - | 3 | 靟 | | 1 | 17 | | | 1 | 1 | | | W. | 22 | 2.3 | ¥. | 7: | | | | 2 2 | | | 124 | 2 | | - | _ | | | 23 | 2 | | i i She | 11.00 | 13 | 25% | 7 | - | 1 | g. |
| 274 | | 4 | (2) X | Œ. | 3 | \$ | | 1 | 30 | 3 | | | | 数 | 1 | 200 | 74 | 1, | | 13 | 14 | 1 | | T | | | | (X) | ¥. | | | 7. | | 3,32 | 清 | 1.2 | 3 | £2. | 2 | 34 | 100 |
| 7 | 2 | 5 8 | | | 3.5 | ÷ | 3 | | 3 | 3 | | * | G | 选 | 漫 | 4 | 7,5 | _ | * * * * * * * * * * * * * * * * * * * * | , i | | | Ţ. | 0 | - | 100 | | ٦. | . | | - | | 1 | 1 | - | 1 | 200 | | 7 | 325 | 6 |
| 25 | 2 | - | | (A) | | 1 | - | <u>3</u> | 1 S | 74. | - | _ | | \$ | 6 | 1/8 | 76 | _ | 133 | * | 1.8 | 12 | | - | Τ | | Ŀ |]-" | | - | 26 | | | | ļ. | | 1,5 | | | | |
| 7 | 21 | | 7 | ., 7 | ¥. | | + | _ | 13. | 1 2 | + | + | + | | | Ľ. | 77 | - | +- | 1 | \perp | - | _ | 1 | 1 | _ | L | _ | | 1: | 27 | I | | | | | | | | П | |
| .5 | 29 | 9 | . 1 | | | 10 | 1 | 15 | 1,5 | | + | , 5 | - | | | s. | 78 79 | ╁ | 1 | Ļ | + | | ╀ | ╀- | 1 | \downarrow | 1 | 1 | L | _ | 28 | | | | | | | | | | |
| 織 | 3 | Q S | 4 | | W. | . 6 | | | Ŋ, | 3 | 13 | | | | ್ರ | (A) | 80 | - | 1 | 2.5 | | - | | 1 | - | - | 12 | 44 | 2 | _ | -4 | 3 3 | | 3 | Ŗ. | | j: | 3.7 | ζ'(γ. | 35 | : · |
| 鯯 | 3 | 1 % | å, | Ŋ. | 3/1 | 40 | | Ų | 9 | 143 | V | 4 | | 7 | 4 | , AC | 81 | × | 50 | 0. | N. | Т | 100 | 1 | -3 | 32. | 3 | 42 | | 13 | - | 1 : | 4 | 7 | 4 | 3 | 4 | | 3 ₆₂ •3- | | <u>`</u> |
| <u></u> | 32 | - | Ŷ ĝ | 43 | (A) | 7 | , | W | 31 | 游 | 派 | ś | | 8.7 | | | 82 | 131 | 10 | | ii. | 35 | E A | - 1 | _ | 3 | 13 | - · · | | 10 | | | | 26.2 60.3 | 4 | 'دُد دند | 15. | \$ | 40. | 34 22 | - |
| | 3 | / I M | | | | 1 | 1 | 22 | N. | | 邬 | 1 3 | 24 } | | ¥. | X. | 83 | 40 | (E) | | 3. | 2 | 'S, | 4 | 11 | . 2 | - | | | 13 | — | 1 2 | | -4 -5 | द्धाः अ | ** | 1 | (i.e. | 32.6 | | 7 |
| 100 | 36 | ***Y | | | 1 | 50 | | 4 | | 7 | 1 | # | 2 6 | | 7 | 1.7 | 84 | 40 | 7 | - | 75. | 2.7 | - | | - | | 13. | 1 | + | 112 | _ | _: | 10 | | \exists | - | - | | | 1 | \exists |
| | 36 | 1 | 7 2 | | 8 | 经典 | | - | 3 | 是自 | 130 | 4 | 315 | | | | 85 | 8 | 13. | N. | 30 | , é | 183 | ij. | 13 | 3) | .8 | 1 | 7 | 13 | 5. | 3 15 | | 7 | 3 | | 4 | ज्री | 170 | 9 | 3 |
| * | 37 | | | | (A) | 174 | | | H | 200 | 10.0 | 100 | A 15 | | 8 | | 86 | 滅 | 100 | 級 | 湿 | 4% | A | 74 | | . A | î, | | 3 | 13 | 6 | <u>د</u> ۽ | 49 | 15 | 114 | 1 | 族 | | | Ş, | 4 |
| V. | 38 | | 1 | | 34. | 27 | 2 | | (A) | 100 | ** | 1 50 | | | | _ | 87 | 1.0 | * | 蹇 | 183 | ** | 梦 | (A) | 133 | 5.4 | | 4 7 | | 13 | 7 * | 1 12 | | ۶ [| Ţ, | | Ħ | | 2. | 13 | |
| | 39 | | 1 | | į, | (1) | 1 | | 8 | 167 | ** | 3 | 2 7 | | | _ | 88 89 | म्ब | ** | 意 | 13.3 | 100 | 43 | 3 0 | 3.7 | 47 | 100 | 130 | 8 | _ | - | + | _ | - | | 7) | 1 | 7 | - | - | 4 |
| 級 | 40 | 1 | 1 | | 3 | Š. | 5 | 6 0 | 20 | X. | A | 1 | _ | | 3 | - | 90 | | 対象 | 旅城 | 47% N'.5 | - | in the | - 1 | 35 | 14 | ď | E.E | 2 | 13 | +- | - | - | | 5 | 2 | 4 | 100 | | 7 | اله |
| 28 | 41 | M | | 912 | | | Ä | | 9 | u) | | | 1 | - T | | | 91 | | 额 | 凝 | Y The | 為 | Great . | 300 | | ()- ()- | ųξ. | 3 | - | 144 | - | | - | - | 5 | - | 8 1 | | 10 2 | ¥[| |
| 20 | 42 | 17 | × | 19 | | ik. | 18 | 1 | 10 | | | 61 | 3 3 | 3 3 | | | | | 機 | (4)(2) [4](8) | 要 | हे ज्यान देशको | 等 | 1 | € \$ | श∯ स्का | 200 | <i>1</i> 7. | 720 | 14 | - | 1 | - | | 3 | V (| | 2 | er S | 5 | * |
| | 43 | 1 | 簽 | 8 8 | 3 | b | 7. | 2 % | ¥ | S | 77 | - 4 | i e | 才装 | 1/2 | (4) | 93 | 1 | 301 | *** | 10.0 | 15.2 | 3 | Se46. | 3.3 | r egy | 100 | | 3 | | | 3 | | ¥ . | 27 | 65 8 | 3.5 | 38 B | λ.,) Σ. | 8 % 5 <i>E</i> | |
| | 44 | 談 | 4 | 1 | | | 2 | 3 | ŷ, | ij, | 94 | 8 | 15 | 70 | | 2 | 94 | द्ध | er. | 181 | 9. | 2 | 100 | 721 | **- | A. | | 1 | - | 14 | 200 | 17. | 12 | 5 5 | | 5 2 | | 1 | 7) | 1 1 | |
| 3 | 45 | 100 | | 13, | 3 | N | 2 | | 2 | 4 | | 1 | | 18 | 1 | 84 18 | 95 | . 4 | 323 | 35 | X | | 1 | *** | 25 | | r ESG | | 1 | 145 | 75 | | 1 | | \$ 1 | . · | - 1 | | | 3 4 | |
| 4 | 46 47 | | No. | 巡 | | 破 | * | 12 | 7 | 数 | (8) | 100 | \mathcal{L}_{i} | 7 3 | 3 2 | 24 E | 18 | ÇÝ. | 然 | 93 | 4 | 12 | * | | 多分类 | 7 | 6. | 法後納 | | 146 | 154 | 7 | 1.0 | | | | | | 1 | ¥ 3 | 2 8 |
| | 47 48 | 381 | 70 | | | Ø | 30 | 1 | 0 2 | (4) (3) | | M | A. S. | 18 | il) | 2 8 | 7 | 常 | 剱 | 陈 | 3 | | | 303 | 33 | 100 | 189 | | 10 | 146 | 茲 | * | | | 1 | E 5 | 4 6 | A 12 | ğ L | i i | |
| # | 49 | - 13 | 30 | | ¥ 3 | 4 | 211 | 1 4 | 4 | 37 | 100 | 23 | 3 | 3 | | 1 | 8 | 5 | × | -4 | 101 | * | 150 | 14. | 4.3 | 3 | | 4111 | 1 | 148 | 7.3 | ¥ | | | 2 | \mathbf{T} | 10 | G S | 7 . | 2 | 1 |
| - | 50 | | 39. 35. | 12 | #15 | 3 | - | 28 | 4 | 4 | 34 | n | 17/2 14- | 130 | | : E | 9 | | | (S) | 116. 116. | 14 | | 1 | · 第 | 4 | Ç. | 1.1 | (4 | 149 150 | | 30 | N | 7 | . 6 | 4 8 | 9 | 1 6 | 4 1 | i V | |
| ्य | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | .4 | 3.7 | | 1 | <u>, </u> | 9 3) | 10 | 6 2 | | ·a (| |

If more than 150 claims or 10 actions staple additional sheet here.